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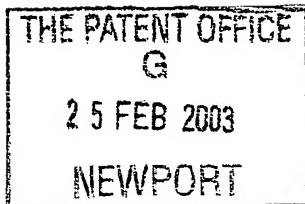
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25FEB03 E787584-3 D01038
P01/7700 0.00-0304226.4

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1. Your reference	P303777GB		
2. Patent application number (The Patent Office will fill in this part)	25 FEB 2003	0304226.4	
3. Full name, address and postcode of the or of each applicant (underline all surnames)	C J Wildbird Foods Limited The Rea Upton Magna Shrewsbury SY4 4UR United Kingdom		
Patents ADP number (if you know it)	6527162001		
If the applicant is a corporate body, give the country/state of its incorporation	United Kingdom		
4. Title of the invention	Pivoting Perch		
5. Name of your agent (if you have one)	WITHERS & ROGERS Goldings House 2 Hays Lane London SE1 2HW		
"Address for service" in the United Kingdom to which all correspondence should be sent (including the postcode)			
Patents ADP number (if you know it)	1776001		
6. If you are declaring priority from one or more earlier patent applications, give the country and the date of filing of the or each of these earlier applications and (if you know it) the or each application number	Country	Priority application number (if you know it)	Date of filing (day / month / year)
7. If this application is divided or otherwise derived from an earlier UK application, give the number and the filing date of the earlier application	Number of earlier application	Date of filing (day / month / year)	
8. Is a statement of inventorship and of right to grant of a patent required in support of this request? (answer 'Yes' if: a) any applicant named in part 3 is not an inventor, or b) there is an inventor who is not named as an applicant, or c) any named applicant is a corporate body. See note (d))	YES		

Patents Form 1/77

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Continuation sheets of this form

Description	5
Claim(s)	2
Abstract	1
Drawing(s)	7

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Priority documents

Translations of priority documents

Statement of inventorship and right to grant of a patent (Patents Form 7/77) 1

Request for preliminary examination and search (Patents Form 9/77)

Request for substantive examination (Patents Form 10/77)

Any other documents (please specify)

11. I/We request the grant of a patent on the basis of this application.

Signature  Date 24.2.03

12. Name and daytime telephone number of person to contact in the United Kingdom Keith Tart 0121 245 3900

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Pivoting Perch

Bird feeders having perches attached thereto are well known. Frequently, the perch comprises an elongate rod or the like fixed to a base member of the feeder or to individual feeding ports. Such feeding ports typically comprise a locating member with a central aperture; the member being configured to locate within a wall portion of the feeder. In use a bird resting on the perch normally has to turn its head 90° so that it faces a port aperture where food is dispensed. While there are some bird feeders that avoid this problem, they generally involve a complex perch mechanism. Further, bird feeders tend to be packaged for sale in a fully assembled state; consequently, feeders with protruding perch rods require a packing box considerably larger in cross section than the cross section of the feeder body. This is wasteful, and ultimately results in an environmental penalty; in that the packaging has to be disposed of.

An object of the present invention is to provide an improved bird feeder perch and in particular a perch that pivots. A further object is to provide a perch that provides improved access to dispensed food for birds resting on the perch.

In a first aspect the bird feeder perch assembly comprises a locating member, a perch and pivoting means that allows the perch to pivot relative to the locating means such that in use the locating member may engage a bird feeder body, and when so engaged the perch may pivot from a retracted position in which the perch is proximal the feeder body to an extended position in which the perch projects outwardly from the body, such that a bird may rest upon the perch

Preferably, in moving the perch from a fully retracted position to a fully extended position the perch pivots through angle of at least 80°. The perch may pivot through an angle of 120° to 160° in order to more easily accommodate larger birds.

The pivoting means may comprise a U-shaped recess in the locating member and an engaging shaft attached to or integral with the perch.

Preferably the perch comprises a portion that in use is substantially horizontal and parallel to the plane of an exterior face of the feeder body surface at the region of engagement of the

locating member, and displaced some distance from that region of the feeder body. This has the advantage that it allows a bird to rest on the perch and feed without bending its neck.

The perch may comprise at least two elongate members that extend in mutually orthogonal directions. Optionally the perch may be ring-shaped with a pivot at the periphery of the ring. Preferably, the perch is U-shaped and the pivoting means comprises a pivot at each free end of the perch.

Preferably the perch comprises a stop bar that in use abuts a stop member on the locating member. Alternatively, the perch may comprise a stop member that abuts a stop bar on the locating member.

The locating member may comprise a bird feeding port. This provides an improved perch that may advantageously be retracted so that it lies against or close to the outer wall of a birdfeeder. Preferably, in use the pivoting means is located below the port aperture and/or a stop bar on the perch abuts against a stop member located below the port aperture.

A preferred embodiment of the invention will now be described by reference to the following diagrammatic figures in which:

Figure 1 is a perspective view of a perch assembly according to the invention in an extended position;

Figure 2 is a perspective view of a perch assembly of Figure 1 in a retracted position:

Figure 3a to 3d show various views of a locating member of the perch assembly;

Figure 4 shows a sectioned side view of the locating member of the perch assembly of Figure 3;

Figures 5a to 5e show various views of a second part of the perch assembly;

Figure 6 shows a sectioned side view of the second part of the perch assembly of Figure 5;

Figures 7 and 8 show the perch assembly of Figure 1 attached to a bird feeder;

Figures 9 and 10 show a further embodiment according to the invention attached to a cage, and to a bird feeder with offset feeding holes respectively:

Figures 11a to 11e show various views of the locating member of the perch assembly shown in Figures 9 and 10; and

Figure 12 shows a sectioned side view of the second part of the perch assembly shown in Figures 11.

With reference to Figures 1 to 8. Figure 1 shows a perspective view of a perch assembly 10 according to the invention; the assembly being in a fully opened position. The assembly comprises a first part (locating member) 12 and a second part 14.

The first part 12 may be a bird feeder port with certain modifications as shown in Figures 3 and 4 (see latter). In this case, the port 12 may be located in a suitable sized aperture of a bird feeder body. The port 12 comprises a feed distributor 16 and a flange 18. Feed distributor 16 comprises a truncated cylindrical portion 20 and a truncated frustoconical portion 22. Portions 20 and 22 are truncated below their lower half so that, in use, seed may enter the port 12 via the orifice 24 formed by these truncations.

Flange 18 presents a circular orifice 26 via which, in use, a bird may access seed with its beak from the birdfeeder. The upper portion of flange 18 has a hood 28 that is positioned so that in use it shields the aperture against rainfall and thus helps keep birdfeed dry. The lower portion of flange 18 has a U-shaped recess 30 in each side. These recesses provide pivot means for the second part 14 of the perch assembly 10 (see latter). Between the recesses 30 there is an integral central portion 32 that has a raised front face 34 that acts as a stop member such that when the perch assembly is in a fully extended position (see Figure 1) the second part 14 abuts against this stop member (see below). The first part 12 also has a protruding notch 36 that, in use, locates a hole in the main body of the bird feeder.

The second part 14 is a perch (see Figures 5 and 6), comprising side rails 40 formed integrally with an end rail 42; the two side rails in combination forming a perch that is predominantly U-shaped. The free ends of the side rails each have a pivot rod 44 having a common axis; this axis being generally parallel to the longitudinal axis of the end rail 42. Rods 42 are configured so as to engage the U-shaped recesses 30 in port 12.

In use port flange 18 is fixed against the outer wall (W) of a birdfeeder body. Thus, pivot rods 42 are retained within the U-shaped recesses 30 by this wall. In use, the perch 14 may pivot about axis X-X' (see Figure 1) allowing it to be moved from a fully extended position (Figure 1) to a fully retracted position (Figure 2). Perch 14 has an integral cross bar member 46 in the form of an elongate rod fixed to each side rail 40 near the free end of the rails. This bar 46 abuts against stop member 34 when the perch assembly is in a fully extended position (see Figure 1). By adjusting the position or size of bar 46 or stop member 34 the fully extended position may be varied. In the example illustrated in Figure 1 the fully extended position corresponds to the perch pivoting through an angle α , in movement from the fully retracted to the fully open position, of approximately 90° . It has been found that in use providing a stop member 34 as part of port 12 avoids the perch abutting against the feeder body and thereby acting as a lever when a bird is supported on the perch; the leverage tending to dislodge the port from the bird feeder body.

In use birds will often rest upon the end rail 42 of the perch. In this position the bird may feed in a relaxed manner without having to bend its neck as required by most conventional perches where in contrast the bird is facing in a direction perpendicular to the feeding orifice 26. If the perch is designed for relatively large birds it may be preferable to position the bar 34 such that α is approximately 150° . This increases the separation of the end rail 30 from the port aperture 20.

The pivoting means shown in this embodiment comprises two U-shaped recesses 30 and two pivot rods 44. However, a single pivot rod may be formed to connect the "free" ends of the perch side rails 40.

In another embodiment (see Figures 9 to 12) the first part 50 excludes the port flange and distributor shown in the embodiment of Figures 3 and 4. Hence, first part 50 is essentially a locating member comprising a pair of U-shaped recesses 52, separated by a forward facing stop member 54, and a rearward facing engaging lug 56. In use, lug 56 locates a hole in the outer wall (W) of a birdfeeder body. For example, engaging lug 56 may push fit into cage grid G (see Figure 9) or a small aperture (not shown) located in the body wall of a birdfeeder (see Figure 10) preferably located below a feeding hole H. Preferably, the lug 56 has resilience; this being provided by one or more slots 58 and/or by selection of a suitably resilient material

For the lug. This resilience combined with a frustroconically tapered outer profile 60 assists location and engagement of lug 56 in use.

The perch of the invention advantageously provides a portion of the perch that, when fully retracted, is substantially parallel to the outer surface of a feeder to which it is attached. It is not essential that the perch be generally U-shaped to achieve this effect. For example, the perch may be generally ring-shaped, T-shaped or L-shaped. Further, the perch may have a single rail and a single pivot, rather than the two side rails and two pivots shown in Figure 1.

CLAIMS

1. A bird feeder perch assembly comprising a locating member, a perch and pivoting means wherein the pivoting means allows the perch to pivot relative to the locating means such that in use the locating member may engage a bird feeder body and when so engaged the perch may pivot from a retracted position in which the perch is substantially flush with feeder body to an extended position in which the perch projects outwardly from the body such that a bird may rest upon the perch.
2. A bird feeder perch according to Claim 1 wherein the perch pivots about an axis that, in use, is either substantially parallel to or tangential to the outer surface of a bird feeder body.
3. A bird feeder perch assembly according to Claim 1 or 2 wherein the pivoting means comprises a recess in the locating member and an engaging shaft attached to or integral with the perch.
4. A bird feeder perch according to Claim 3 wherein the recess is U-shaped.
5. A bird feeder perch assembly according to any preceding claim wherein in moving from retracted position to extended position the perch pivots through angle (α) of at least 80° .
6. A bird feeder perch assembly according to any preceding claim wherein the perch comprises a restraining portion that is displaced some distance outward from the pivot axis such that when the perch is in the fully extended position the restraining portion abuts against a stop member that is integral with or attached to the locating member.
7. A bird feeder perch assembly according to any preceding claim wherein the perch comprises at least two elongate members that are extend in mutually orthogonal directions.
8. A bird feeder perch assembly according to any of claims 1 to 6 wherein the perch is ring-shaped with a pivot at the periphery of the ring.

9. A bird feeder perch assembly according to any of Claims 1 to 6 wherein the perch is U-shaped and the pivoting means comprises a pivot at each free end of the perch.
10. A bird feeder perch assembly according to any preceding claim wherein the pivoting means comprises a plurality of recesses in the locating means.
11. A bird feeder perch assembly according to any preceding claim wherein the locating member is a bird feeding port.
12. A bird feeder perch assembly according to Claim 11 wherein in use the pivoting means is located below port aperture.
13. A bird feeder perch assembly substantially as described above by reference to Figures 1 to 8 or Figures 9 to 12.

Pivoting Perch

A bird feeder perch assembly comprising a locating member, a perch and pivoting means that allows the perch to pivot relative to the locating means; such that in use when attached to a bird feeder body the perch may pivot from a retracted position in which it is substantially flush with the body to an extended position in which it projects outwardly from the body such that a bird may rest upon it; the locating member may form part of a bird feeder port flange.

(Figure 1)

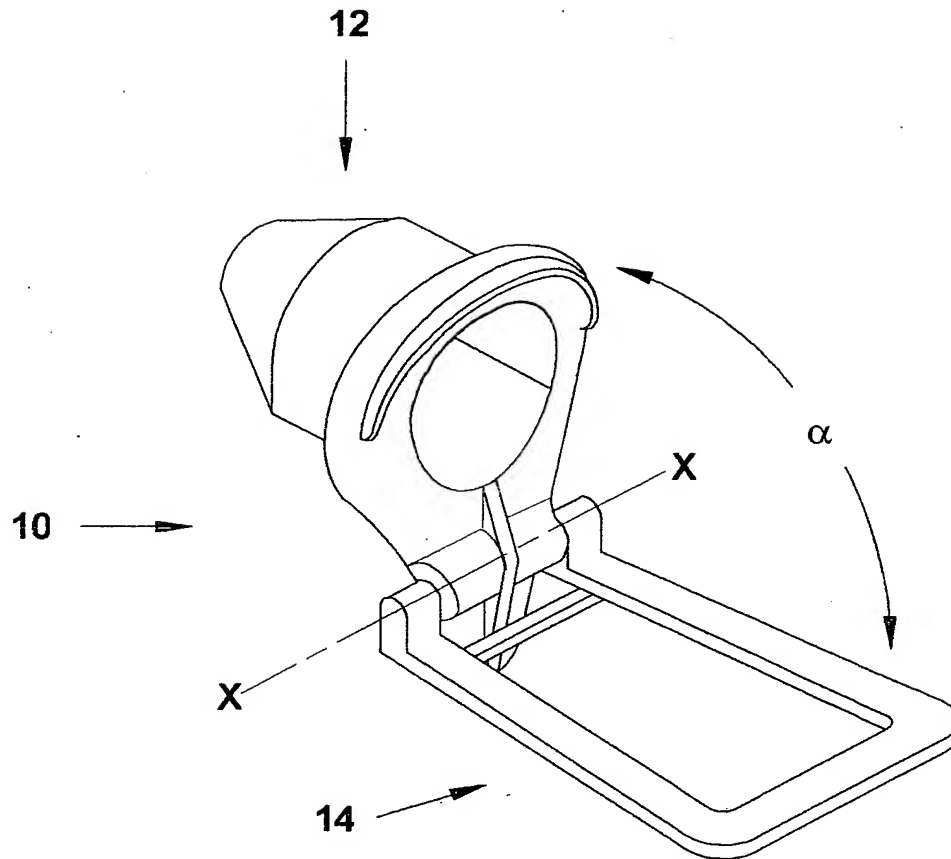


Fig. 1

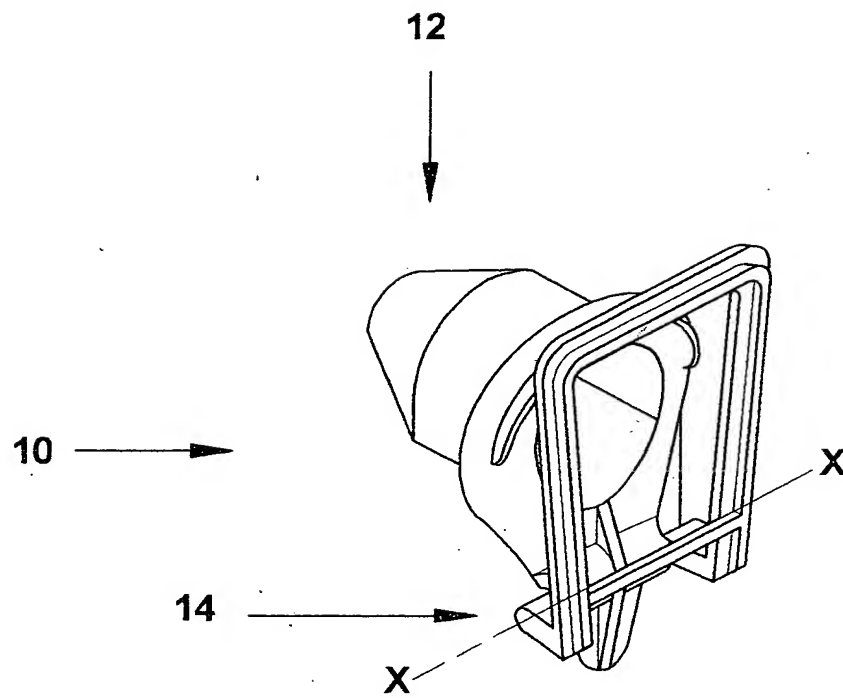


Fig. 2

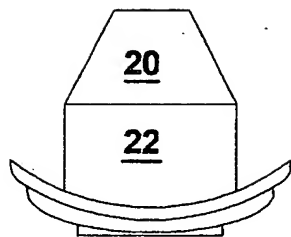


Fig. 3a

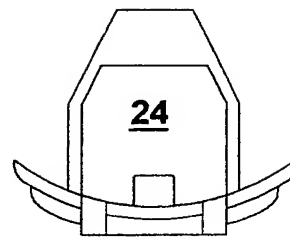


Fig. 3b

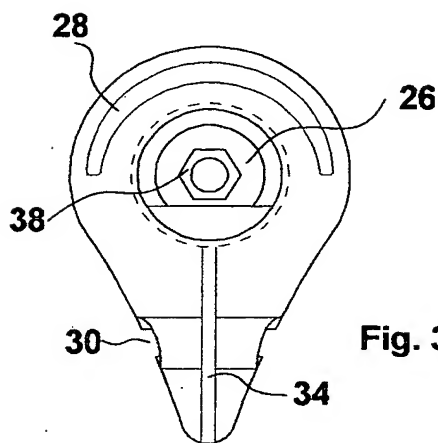


Fig. 3c

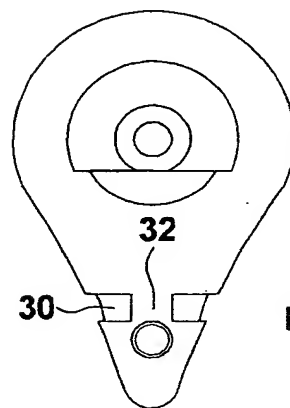


Fig. 3d

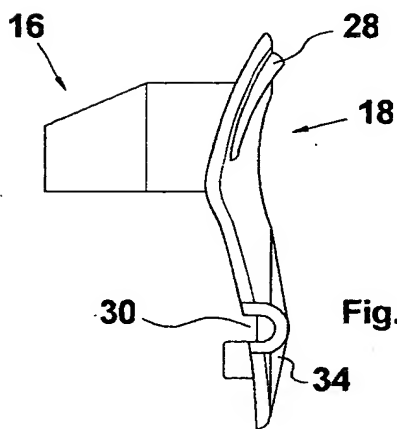


Fig. 3e

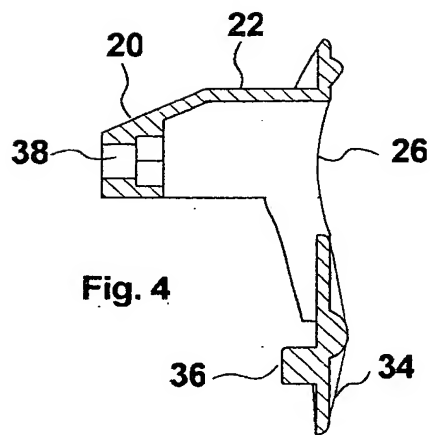
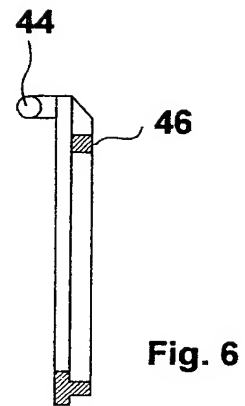
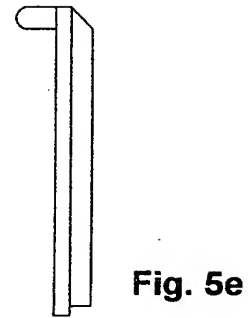
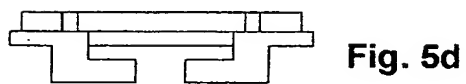
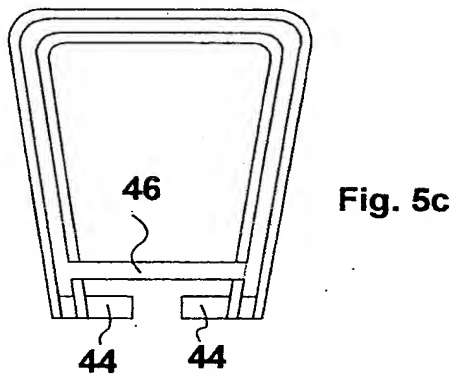
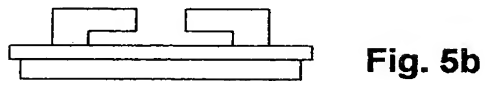
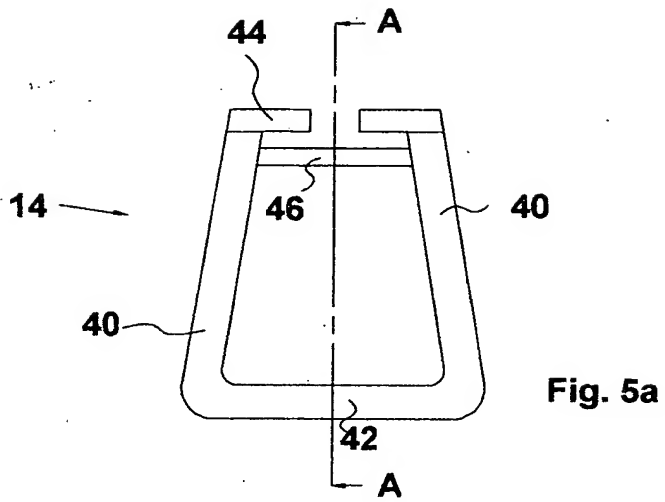
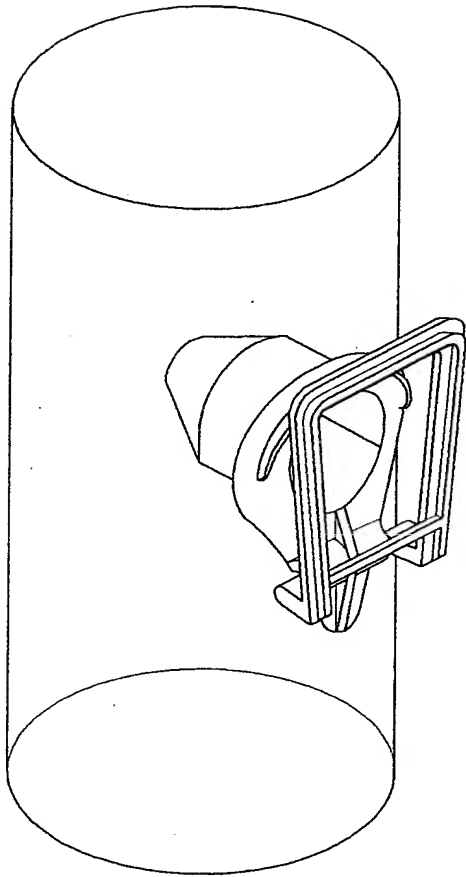
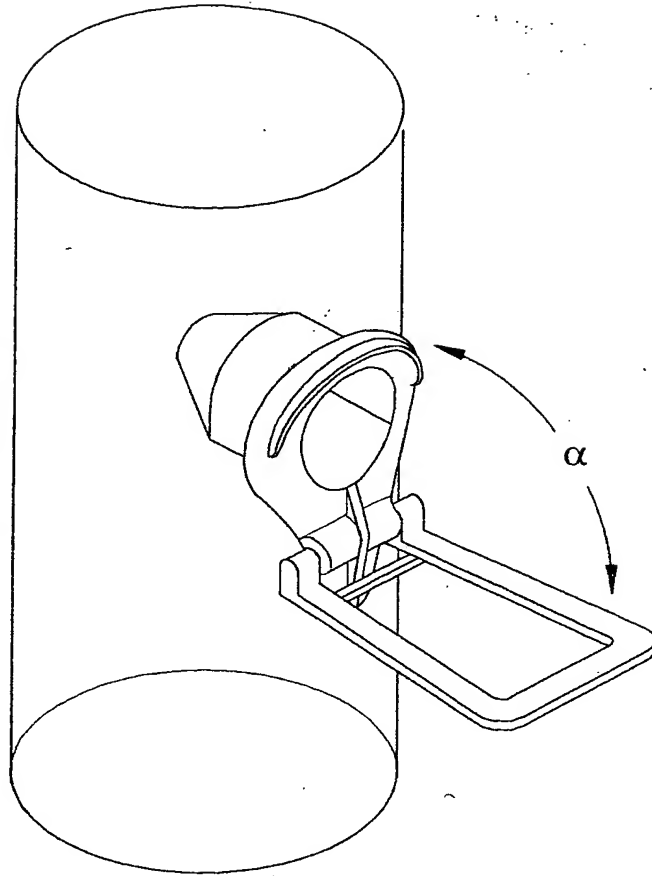


Fig. 4



**Fig. 7****Fig. 8**

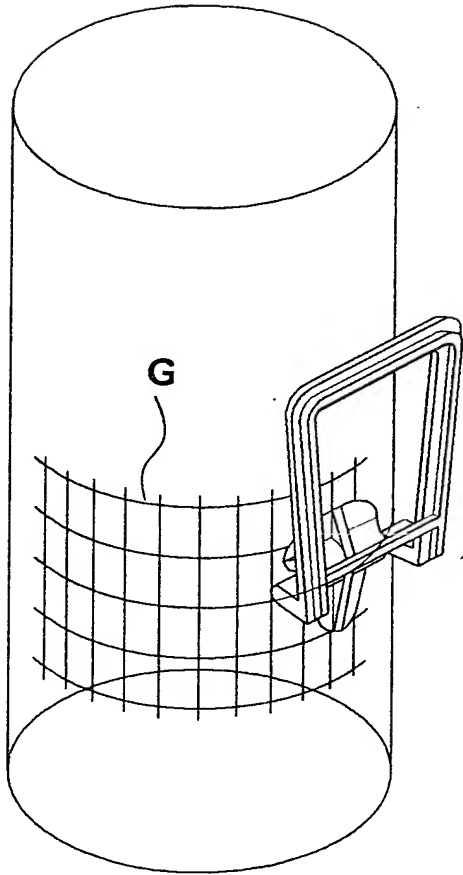


Fig. 9

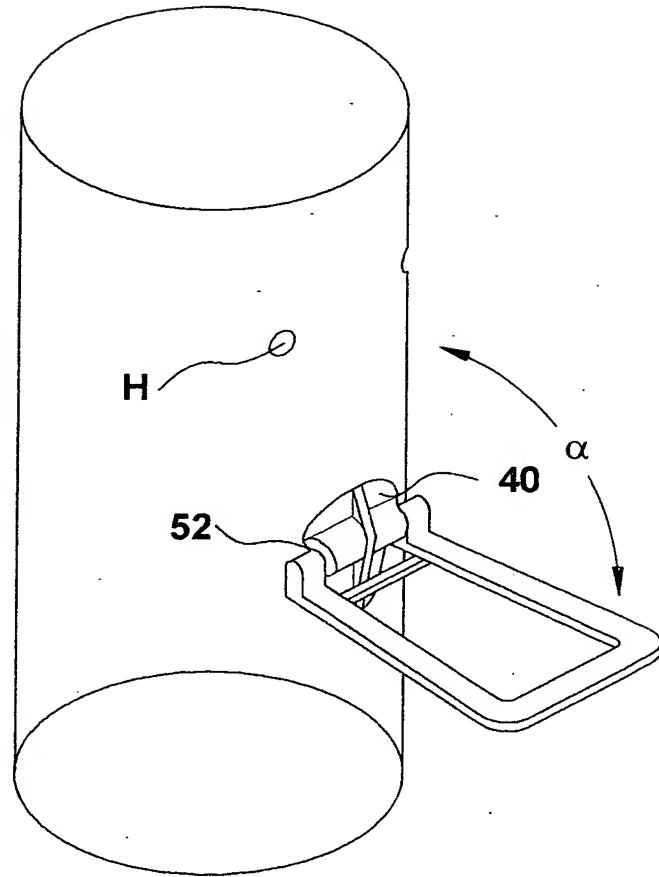


Fig. 10

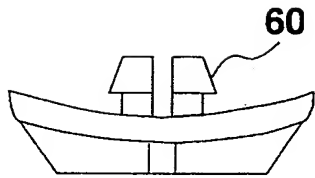


Fig. 11a

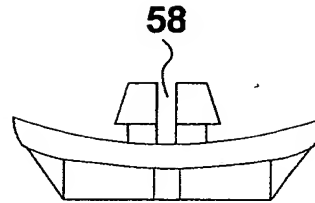


Fig. 11d

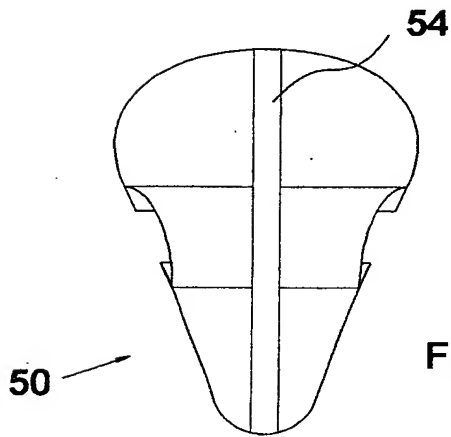


Fig. 11b

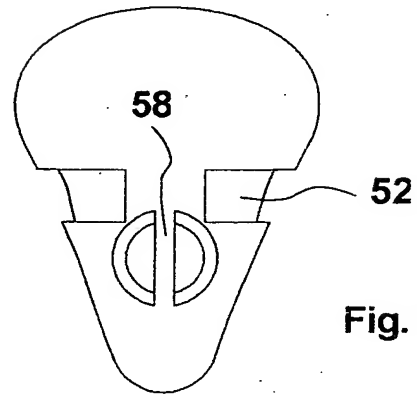


Fig. 11e

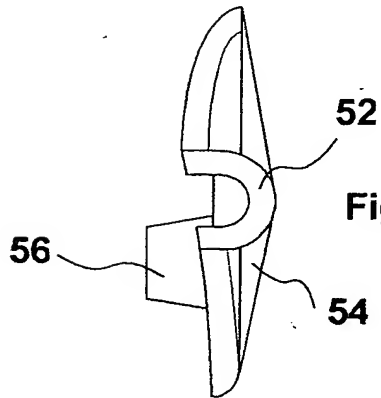


Fig. 11c

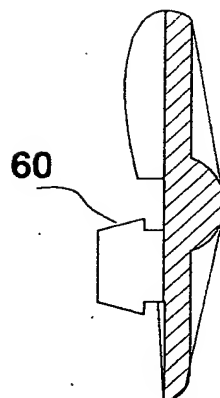


Fig. 12

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